



Longitudinal Buffer Space *Speed Lenath Min (feet) (mph) 155 200 425 495 645 730

* Posted speed, off-peak 85th percentile speed prior to work starting, or the anticipated operating speed in mph.

11. The reduced speed limit shall be determined dependent on the in place speed limit before construction. The speed limit reduction should not exceed 10 mph below the existing speed limit, unless the design speed of the work zone feature has been reduced below the 10 mph. In this case, the speed limit reduction shall not exceed 30 mph. Where speed limits are to be reduced more than 30 mph, a second speed limit sign shall be installed with the desired speed reduction but shall not exceed 30 mph. The second speed limit sign shall be placed at 1/2 B.

The contractor has the option of using portable sign supports in lieu of post mounted sign as shown on the standard drawings as specified in section 704.03 C.

ADVANCE WARNING SIGN SPACING Distance Between Signs Road Type Min. (ft) В Urban - Low Speed (30 mph or less) Urban - Low Speed (over 30 to 40 mph) 150 280 150 280 280 Urban - High Speed (over 40 mph to 50 mph) 360 Rural - High Speed (over 50 mph to 65 mph) 720 360 720 360 720 Urban Expressway and Freeway (55 mph to 60 mph) 850 1350 2200 Rural Expressway and Freeway 1000 1500 2640 (70 mph to 75 mph) Interstate/4-Lane Divided 750 Maintenance and Surveying) 1000 1500

		NORTH DAKOTA	
	DEPARTN	IENT OF TRANSPORTATION	
		08-01-92 REVISIONS	
	DA TE	CHANGE	
	07-25-03	Revised R2-1, R2-1a, and W20-1	
	04-01-04	Rev G20-55-96 sign & warning & buffer spacin	
	09-21-04	Minor revision	
row panel	12-01-04	PE Stamp added	
	06-29-05	Revised W4-2, Replaced	
		R2-5a with W3-5. Revise	
ator or		Adv. Warning Table:	
Is back		Rev. Note 11	
	04-05-06	The speed limit 55 sign removed	
	01-04-07	Revised note 2	

08-0**1-**9**2** REVISIONS CHANGE Revised R2-1, R2-1a -04 Revised KZ-1, KZ-1d, and W20-1
-04 Rev G20-55-96 sign & warning & buffer spaci
-04 Minor revision
-04 PE Stamp added Revised W4-2, Replaced R2-5a with W3-5. Revised Adv. Warning Table. Rev. Note 11 The speed limit 55 sign removed Revised note 2

NORTH DAKOTA

issued and sealed by MARK S. GAYDOS Registration Number PE- 4518, on 01/04/07 and the original document is stored at the

North Dakota Department

of Transportation

This document was originally

KEY Type I barricade Type II barricade =Type III barricade \neg Flaage ∞ Sequencing are Delineator drum П Type A deline vertical panel to back Tubular markers

10.

4. Variables

R:\SUPPORT\DESSTD\D704-35.dan

S = Numerical value of speed limit or 85th percentile.

5. Delineator drums used for tapering traffic shall be spaced at dimension "S".
Tubular markers used for tangents shall be spaced at 2 times "S".

RAMPS: When the work area encompasses a ramp, the ramp shall be controlled by installing

a 40 mph speed limit sign and covering any existing yield sign. Install new yield sign as necessary. When the main line 40 mph speed zone is moved past the ramp, the ramp speed

W = The width of the taper. L = Minimum length of taper, or S x W for freeways, expressways, and all other roads

with speeds of 45 mph or greater, or W imes S 2 /60 for urban, residential, and other streets

Panels should normally be placed at the beginning of the taper. Where shoulder width does not provide sufficient room, the panel should be moved closer to the work area so that it

Type A shall be used on roadways with slow moving traffic speeds and low volume (25 mph and 750 ADT or less).

Type B shall be used on roadways with moderate traffic speeds and volumes (40 mph and 5000

Type C shall be used on roadways with high traffic speeds and volumes (over 40 mph and 5000 ADT).

The speed limit shall be re-established. The exact speed limit shall be determined in the

field, dependent on location and conditions.

Existing speed limit signs within a reduced speed zone shall be covered.

Obliterated or covered pavement marking shall be paid for as Obliteration of Pavement Marking. The covering shall be approved by the Engineer When warning signs are used in urban areas and the signs are not portable, flags shall be installed. The flags shall be 24 inches square, mounted perpendicular to the edges of the diamond sign, and at such a distance above the edge so that when the flag is limp it will not touch the sign. Rural areas will not require flags.

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shall be covered or removed.

limit sign shall be removed.

Sequencing Arrow Panels

with speeds of 40 mph or Tess.

can be placed on the roadway surface.